

UNCLASSIFIED

AD

413797

DEFENSE DOCUMENTATION CENTER

FOR

SCIENTIFIC AND TECHNICAL INFORMATION

CAMERON STATION, ALEXANDRIA, VIRGINIA



UNCLASSIFIED

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

63-4-4

Technical Report

QMRE 27

Seal 4

CATALOGED BY DDC

AS AD No. 413797

BIBLIOGRAPHY

of

PUBLICATIONS and TECHNICAL PAPERS

for

1962

DDC
RECEIVED
AUG 21 1962

Astia Availability Notice: "QUALIFIED
REQUESTERS MAY OBTAIN COPIES OF THIS
REPORT FROM ASTIA."

QUARTERMASTER RESEARCH & ENGINEERING CENTER

U. S. ARMY MATERIEL COMMAND

May 1963

Natick, Massachusetts

413797

Technical Report

QMRE 27

BIBLIOGRAPHY OF
PUBLICATIONS AND TECHNICAL PAPERS FOR 1962

Quartermaster Research & Engineering Center

U. S. Army Materiel Command

May 1963

Natick, Massachusetts

QUARTERMASTER RESEARCH & ENGINEERING CENTER

Commanding General

1. TRIBE, M. L. Impact of the reorganization of the Army and the move to Natick on the Associates. 16th Annual Meeting, R&D Associates, Chicago, 21 April
2. _____ Research and development trends. Mobilization Designee Training Course, Utah General Depot, Ogden, Utah, 25 June

Executive Officer

3. RORK, P. J. Research and development trends. Mobilization Designee Training Course, Utah General Depot, Ogden, Utah, 20 July; Atlanta General Depot, Atlanta, Ga., 18 September

Office of Scientific Director

Journal Articles

4. FLANAGAN, J. H. Military research and civilian markets. The Review XLI(4): 33 (January-February)
5. OESTERLING, J. F., and S. D. BAILEY The contribution of research to development. The Review XLI(4): 28 (January-February)
6. SIELING, D. H. The scientific team. The Review XLI(4): 14 (January-February)
7. _____ Where is Natick and why. Activities Report, R&D Associates, Food & Container Institute, Inc., 14(2): 133 (June)

Technical Papers

8. POMERANTZ, R. The new radiation laboratory facility at Natick. 16th Annual Meeting, R&D Associates, Chicago, 24 April
9. SIELING, D. H. Advances in food processing and preservation. 9th Annual Food Service Seminar, University of Massachusetts, Amherst, 26 January
10. _____ Thoughts for food. American Society of Agricultural Engineers, QMREC, Natick, 4 April

QUARTERMASTER RESEARCH & ENGINEERING CENTER

Office of Scientific Director

Technical Papers (cont.)

11. SIELING, D. H. Where is Natick and why. 16th Annual Meeting, R&D Associates, Chicago, 24 April
12. _____ Science and engineering at work. Industry Day, QMREC, Natick, 17-18 May

Plans Office

Journal Articles

13. PETERSON, M. S. Freeze-drying equipment. Food Technol. 16: 18 (March)

Book Chapters

14. PETERSON, M. S. Food processing, in: American People's Encyclopedia
15. _____ Food, in: Compton Yearbook (1962)
16. _____ Food industries, in: Oxford Junior Encyclopedia (1962) Vol. 7, Industry & Commerce

AIR DELIVERY EQUIPMENT DIVISION

Reports

17. Analysis of parachute deployment of heavy cargo, by H. G. HEINRICH, L. R. RUSSEL, and D. J. ECKSTROM. ASD Technical Documentary Report 62-638
18. An analytical study of undamped nonlinear single-degree-of-freedom system subjected to impulsive loading, by W. FOWLER. January
19. The effects of acceleration pulse parameters on the permanent deformation of a damped single-degree-of-freedom system, by M. D. REIFEL. January
20. Further studies of the response to shock loading of vehicles cushioned for air delivery, by C. A. FORD. October
21. High-velocity impact cushioning, part VI, personnel carrier, M113, by W. FOWLER. July
22. Stability and drag of parachutes with varying effective porosity, by H. G. HEINRICH and E. L. HOAK. ASD Technical Documentary Report 62-100 September

CLOTHING AND ORGANIC MATERIALS DIVISION

Reports

23. Abrasion resistance of cotton/nylon blended yarns, by L. I. WEINER and C. J. POPE. TEL Report 297, January
24. Adjustable retention assemblies for oxygen masks, by A. L. LASTNIK and R. B. CAREY. CB Report 28, March
25. Army aircraft crewman's helmet. Minutes of In-Process Review, by A. L. LASTNIK. September
26. Army aircraft crewman's helmet. Minutes of Task Group Meeting, by A. L. LASTNIK. February
27. Army aircraft crewman's helmet. Minutes of Task Group Meeting, by A. L. LASTNIK. May
28. Blend fabrics and their impact on military textile applications. Proceedings of Conference on Military Applications of Blended Fabrics, QM R&E Center, Natick, 1960. TS Report 119, 1961
29. Control of color of textiles. How good can it be? by F. J. RIZZO. TDB Research Report 155, August
30. Current practical uses of instrumental color matching in industry, by F. J. RIZZO. TDB Research Report 157, October
31. Design and development of natural hand gloves, by S. J. KENNEDY, R. L. WOODBURY, and H. MADNICK. C&EDB Report 33, July
32. Development of a DOD shade standard for slacks, women's, cotton/polyester, shade dark blue 1517, by A. M. CAMPBELL and N. S. BUCHAN. TDB Research Report 158, October
33. The development of a lightweight cold weather sleeping bag system, by J. H. VANDERBIE. C&EDB Report 31, June
34. Development of fabric structures adequate for combat clothing after resinous treatment, by J. F. KRASNY and E. C. OLIVA, Harris Research Laboratories, Inc. TE Report 298, December 1961
35. Development of fabric structures adequate for combat clothing after resinous treatment, by J. F. KRASNY and E. C. OLIVA, Harris Research Laboratories. TE Report 299, March
36. Development of fabric structures adequate for combat clothing after resinous treatment, by J. F. KRASNY, Harris Research Laboratories. TE Report 301, June

CLOTHING AND ORGANIC MATERIALS DIVISION

Reports (cont.)

37. The effect of resin concentration on physical properties of a laminated structure for a crash and ballistic protective flight helmet, by A. L. LASTNIK and J. W. GATES. CB Report 29, April
38. The effect of thermal radiation on a double-cloth fabric, by H. SHRAGER. TFFL Report 197, September
39. The effect of thermal radiation on fabrics having a yarn construction of filament nylon twisted with cotton, by H. SHRAGER. FE&F Report 198, December
40. Evaporation characteristics of nerve gas CW simulants when exposed to an uncontrolled atmosphere, by D. G. FOX. PE Report 1, June
41. Fabrication and test of experimental handwear incorporating the redistribution of insulation principle, by H. MADNICK. C&EDB Report 30, May
42. Heat-retention properties of tent liners, by C. J. MONEGO and H. J. RASOR. TS Report 122, November
43. Impact phenomena in textiles, by W. J. LYONS, Textile Research Institute. TS Report 120, August
44. Laboratory physical test data obtained from Micrex creped and uncreped Kimberly-Stevens CB material RSR 8276, item #1, by D. G. FOX. PE Report 2, July
45. Laboratory physical test data obtained from Micrex creped and uncreped Kimberly-Stevens CB material RSR 8276, item #2, by D. G. FOX. PE Report 3, July
46. Low-cost sleeping facility, by J. W. GATES and R. M. SCHWANER. Civil Defense Project, October
47. Low temperature studies on compatibility of protective headgear items, by J. H. VANDERBIE and G. R. LITCHFIELD. CB Report 35, November
48. Micrex creping of Kimberly-Stevens CB material RSR 8276, items number 1 and 2 at Bird Machine Company, South Walpole, Massachusetts, on 9 August 1962, by D. G. FOX. PE Report 4, August
49. Molding helmet liners from nylon cloth made from 1050 denier type 700 nylon yarns, by A. L. LASTNIK. C&EDB Report 32, July
50. The present status of wear testing in the United States, by L. I. WEINER. TEL Report 302, September

CLOTHING AND ORGANIC MATERIALS DIVISION

Reports (cont.)

51. Proceedings of the textile and clothing seminar held at the QM R&E Center, Natick, Mass., in 1962. TS Report 121, September
52. Rapid sole leather tannage using domestic materials, by L. SELIGSBERGER. F&LS Report 16, October
53. Research study on development of ventilated, insulated footwear, by E. H. KOELLER and H. J. HIRSCHORN, Armour Research Foundation. C&EDB Report 27, February
54. Some aspects of the performance of man-made fibers in military clothing fabrics, by L. I. WEINER. TEL Report 300, May
55. Some observations of liquid behavior on various cords for seams of chemical and biological protective overgarments, by P. P. HALL. TE Report 303, October
56. A study to determine the logistic and economic feasibility of utilizing paper-based items as substitutes for woven materials at the Walter Reed General Hospital, by H. I. KAVET and W. R. CASTLE. June
57. Summary of Quartermaster Corps - Office of The Surgeon General tests of disposable paper-based hospital items, Anon. October
58. A survey of 18-ounce blended serge fabrics; wear resistance, by L. I. WEINER. TS Report 123, November
59. The T61-3 integrated field-combat clothing system, by J. H. CROSSON. C&EDB Report 26, February
60. Textile wear, by L. I. WEINER. TE Report 304, November
61. Tolerance time for work in the heat when wearing CBR protective clothing, by R. F. GOLDMAN. C&EDB Report 34, October
62. Vertical flame resistance data obtained from Micrex creped and uncreped Kimberly-Stevens CB material RSR 8276, item #1 and item #2, by D. G. FOX. PE Report 5, August
63. Wear resistance correlation studies. Part I: plan of test, by L. I. WEINER. TEL Report 296, January

CLOTHING AND ORGANIC MATERIALS DIVISION

Journal Articles

64. FOX, D. G., G. A. SCHRAG, J. A. MURRAY, and G. R. THOMAS Paper-based materials for expendable clothing. Tappi 45(7): 199A (July)
65. LAIBLE, R. C. The viscoelastic behavior of isotactic polypropylene fibers. J. Appl. Polymer Sci. 6(21): 269 (November)
66. MILES, T. D. Flame resistant textiles. Natl. Safety Congr. Trans. 25: 27 (May)
67. _____. Identification of durable flame resistant finishes. Am. Dyestuff Rep. 51(12): 56 (11 June)
68. WEINER, L. I. A note on the influence of finish on the flex-abrasion resistance of cotton sateen. Textile Research J. 32: 524 (June)
69. _____ and C. J. POPE Snagging of textile fabrics, comparison of laboratory and field test results. Textile Research J. 32: 350 (April)

Technical Papers

70. BARRON, E. R. Problems in the design of an articulated armor vest using rigid components. Eighth Annual Army Human Factors Engineering Conference, USA Infantry Center, Fort Benning, Ga., 16-19 October
71. HARVEY, A. W. Army materials research program. Committee #3, Materials Advisory Board, Washington, 27 March
72. _____. Army organic materials program. Army Ordnance Association, Washington, 25 April
73. KENNEDY, S. J. Award of the Harold DeWitt Smith memorial medal to Dr. Stanley Backer. American Society of Textile Materials, Committee D-13, New York City, 1 March
74. _____. Functional clothing design and the biophysics of clothing. Rhode Island Textile Association, East Providence, 17 April
75. _____. Textile and clothing for limited and nuclear warfare. Industry Day, QM R&E Center, Natick, 17 May
76. MADNICK, H. Design and development of gloves. Eighth Annual Army Human Factors Engineering Conference, USA Infantry Center, Fort Benning, Ga., 16-19 October

CLOTHING AND ORGANIC MATERIALS DIVISION

Technical Papers (cont.)

77. McISAAC, H. J. Government specifications, with special emphasis on quality assurance (the point system). National Industries for the Blind, Washington 6-7 June
78. McQUADE, A. J. and E. T. WALDRON The effect of thermal radiation on textile materials. Fiber Society, Boston, 11 October
79. MILES, T. D. Test methods for measuring flame resistance. National Fire Protection Association, Boston, 2-3 October
80. _____ A. D. DELASANTA, and F. A. HOFFMAN Direct photometric titration of copper 8-quinolinolate using EDTA. American Chemical Society, Washington, 21 March
81. _____ F. A. HOFFMAN, and A. MEROLA Replacing THPC in the APO-THPC flame resistant finish for textiles. Army Science Conference, West Point, N. Y., 20 June
82. RIZZO, F. J. Camouflage-uniforms and gear for the individual soldier. USA Infantry Board, Fort Benning, Ga., 23 May
83. _____ Current practical uses of instrumental color matching in industry. American Association of Textile Chemists and Colorists, Atlanta, Ga., 13-17 November
84. SELIGSBERGER, L. Observations on the tanning action of synthetic polyphenols. American Leather Chemists Association, Mackinac Island, Mich., 17-20 June
85. WALDRON, E. T. Ignition characteristics of cotton/nylon fabrics. Committee on Fire Research, National Research Council, San Francisco, 24-25 April

EARTH SCIENCES DIVISION

Reports

86. Classification and coding system of world literature on arthropods, by B. V. TRAVIS, H. H. CASWELL, W. B. ROWAN, H. STARCKE, and C. W. ROSS. Technical Report ES-4, August
87. Climatology of insolation in the intermontane basins and plateaus of the Western United States, by I. BENNETT. Ph.D. dissertation, Boston University, Boston, Mass., June
88. Mesoclimatic temperature differences in the Fort Greely, Alaska, area, by A. V. DODD. Technical Report ES-3, April
89. Molecular structure and auxin action: the fourth specificity requirement, by W. L. PORTER. Ph.D. dissertation, Harvard University, Cambridge, Mass., August
90. Muskeg, review of research, by W. C. ROBISON, W. F. THOMPSON, and A. V. DODD. Technical Report ES-5, July
91. Notes on some environmental conditions affecting military logistics in Thailand, by Staff, Earth Sciences Division. Special Report S-1, June
92. Wind conditions in the lowest 500 feet of the atmosphere, by P. C. DALRYMPLE. Manuscript report on file in Earth Sciences Division, February

Journal Articles

93. ANSTEY, R. L. Representativeness of weather stations. Folia Geographica Danica Tom. IX, Kobenhaven, C. A. Reitzels Forlag, 51-2
94. BENNETT, I. Natural daylight illumination and its relation to insolation. Illum. Eng. 57(3): 145-149 (March)
95. MEIGS, P. Review of Alfons Gabriel: Die Wusten der Erde und ihre Erforschung. Die Erde, Zeitschrift der Gesellschaft fur Erdkunde zu Berlin 93(3): 241-242
96. THOMPSON, W. F. Cascade alp slopes and gipfelfluren as clima-geomorphic phenomena. Erdkunde, Band XLI, Lfg 2, 81-94 (July)

EARTH SCIENCES DIVISION

Technical Papers

97. ANSTEY, R. L. Some fundamental considerations in delimiting tropical climates. International Geographical Union, Regional Conference of Southeast Asian Geographers, University of Malaya, Kuala Lumpur, 7 April
98. BENNETT, L. Distribution of insolation in the intermontane region of the Western United States. American Meteorological Society, Second Conference on Climatology, Asheville, N. C., 22-25 October
99. BRIERLY, W. B. The Army Quartermaster Corps projects covering the analysis and evaluation of environmental factors. The Office of Defense Research and Engineering, 31st Symposium on Shock, Vibration and Associated Environments, Phoenix, Arizona, 1-4 October (Abstract in summaries of contributed papers)
100. DALRYMPLE, P. C. Radiation corrections on thermocouple measurements. 203d National Meeting, American Meteorological Society, Fairbanks, Alaska, 26-28 June
101. _____ Wind profile studies at the South Pole. Low Level Wind Conference, American Meteorological Society, El Paso, Texas, 7-8 August, and Dallas, Texas, 9 August
102. _____ and S. H. WOLLASTON Analysis of South Pole wind gradients. 7th Meeting of Army Meteorological R&D Coordination Committee, Cold Regions Research and Engineering Command, Hanover, New Hampshire, 16-18 October
103. HASTINGS, A. D., JR. Araucania, Chilean disaster area. Association of American Geographers, Miami Beach, 22-26 April
104. HOGUE, D. W., A. V. DODD, and R. L. ANSTEY Twenty-four hour duration of low temperatures in North America. 13th Alaska Science Conference, Juneau, Alaska, 22-25 August
105. LYONS, R., S. H. WOLLASTON, and H. PANOFSKY Wind above the ground and fog forecasting. Fourth Conference on Applied Meteorology, American Meteorological Society, Hampton, Virginia, 10-14 September
106. MEIGS, P. Classification and occurrence of Mediterranean-type dry climates. Colloquium of Arid Zone Commission, International Geographical Union, Iraklion, Crete, September

EARTH SCIENCES DIVISION

Technical Papers (cont.)

107. THOMPSON, W. F. Preliminary notes on the nature and distribution of rock glaciers relative to true glaciers and other effects of the climate on the ground in North America. Symposium on Variation of the Regime of Existing Glaciers, Obergurgl, Austria, September
108. WESTBROOK, J. H. A method for predicting the probable hourly duration of high temperatures. Association of American Geographers, Miami Beach, 22-26 April
109. WILLIAMS, L. Are present recommended winter outdoor design temperatures valid? Annual Meeting, American Society of Heating, Refrigerating and Air Conditioning Engineers, Miami Beach, 25-27 June
110. WOLLASTON, S. H. South Pole surface energy budget. 7th Meeting of Army Meteorological R&D Coordination Committee, Cold Regions Research and Engineering Command, Hanover, New Hampshire, 16-18 October

FOOD DIVISION

Reports

111. Food research and development: freedom from want, by E. S. JOSEPHSON.
Thesis, Industrial College of the Armed Forces, Washington,
March

MECHANICAL ENGINEERING DIVISION

Reports

112. The effect of shot peening on the ballistic characteristics of the M-1 helmet, by H. E. AGEN. Report ME-1, July

Journal Articles

113. MILLARD, J. W. Army on the move. The Review XLI(4): 62 (January-February)

Technical Papers

114. AGEN, H. Comparative forming techniques for titanium helmets. U. S. Army Conference on Dynamic Behavior of Materials and Structures, Springfield, Mass., 26-28 September
115. LEVIN, A. An experiment in QMC systems research. Eighth Annual Army Human Factors Engineering Conference, Fort Benning, Ga., 16-18 October
116. _____. Engineers in federal service. Report to the 25th Annual Meeting of Massachusetts Society of Professional Engineers, Nahant, May
117. TARLOW, I. Investigation in temperature control of hydraulic systems in rough-terrain fork trucks. Eighth Conference on the Design of Experiments in Army Research, Development and Test, Walter Reed Army Institute of Research, Washington, October

PIONEERING RESEARCH DIVISION

Reports

118. An automatic guard-ring temperature controller for thermal conductivity measurements, by M. J. SACCO, F. W. BOTSCH, and A. H. WOODCOCK. Technical Report PR-7, October
119. Further development of a method to predict line-of-sight capabilities, by W. F. WOOD. Aircraft Environmental Research Study Report AE-5, May
120. A guarded hot-plate apparatus for the measurement of thermal conductivity, by H. J. HOGE, S. S. EICHACKER, and G. F. FONSECA. Technical Report PR-6, October
121. Human factors evaluation of the lightweight mobile printing set, by J. M. MCGINNIS. Engineering Psychology Research Study Report EPR-3, April
122. Human factors study of QMC clothing and equipment during cold weather tests of the PERSHING missile system, by J. M. MCGINNIS and T. ZIMMERER. Engineering Psychology Research Study Report EPR-1, April
123. Human factors study of QMC clothing and equipment during cold weather tests of the SERGEANT missile system, II, by J. M. MCGINNIS and T. ZIMMERER. Engineering Psychology Research Study Report EPR-2, July
124. The microbiological deterioration of hydrocarbons and the related degradation of equipment used for the storage, distribution, and handling of petroleum products - a selected bibliography. Supplement no. 1, by D. C. BIRKHOLZ, M. R. ROGERS, and A. M. KAPLAN. March
125. Microscopic and x-ray investigation of solid particles (diamond powders), by A. O. KING, G. SUSICH, and A. S. WRIGLEY. Technical Report PR-5, May
126. Minutes of 10th conference on prevention of microbiological deterioration of military materiel, by R. T. DARBY. August
127. Tensile impact on rubber and nylon, by M. N. PILSWORTH, JR. Technical Report PR-3, May
128. The thermal conductivity of a multilayer sample of underwear material under a variety of experimental conditions, by H. J. HOGE and G. F. FONSECA. Technical Report PR-8, October
129. Thermal conductivity of pyrex glass, selected values, by L. C. K. CARWILE and H. J. HOGE. Thermodynamics Laboratory Technical Report TC-1, November

PIONEERING RESEARCH DIVISION

Journal Articles

130. ALTAMURA, M. R., L. LONG, JR., and T. HASSELSTROM Synthesis of some thiol esters of dl-cis-trans-Chrysanthemummonocarboxylic acid. J. Org. Chem. 27: 594
131. BAILEY, S. D., D. G. MITCHELL, M. L. BAZINET, and C. WEURMAN Studies on the volatile components of different varieties of cocoa beans. J. Food Sci. 27(2): 165 (March-April)
132. BALL, D. H., and F. PARRISH Observations on the acetylation of carbohydrates in aqueous solution. J. Org. Chem. 27: 4120
133. BAZINET, M. L., and C. MERRITT, JR. Techniques for the mass spectrometric analysis of volatile compounds isolated from natural sources. Anal. Chem. 34: 1143 (August)
134. DARBY, R. T., and A. G. KEMPTON Soil burial of fabrics treated with minimal concentrations of fungicides. Textile Research J. 32(7): 548 (July)
135. DIPIETRO, C., R. E. KRAMER, and W. SASSAMAN Micro-carius determination of phosphorus in organic compounds. Anal. Chem. 34: 586 (April)
136. HEINMETS, F. Measurement of ice-liquid interphase potentials in protonated and hydroxylated electrolytes. Trans. Far. Soc. 58(472)4: 788 (April)
137. _____ and A. HERSCHMAN Theoretical analysis of models for enzyme synthesis. Proceedings of the 2nd annual bionics symposium at Cornell University, 30 August 1961, p. 60. In E. E. Bernard and M. R. Kare (ed.), Biological prototypes and synthetic systems, v. 1, Plenum Press, New York
138. HENRY, M. C. Synthesis of organolead arsonates and arsinates. J. Inorg. Chem. 1: 917 (November)
139. _____ and W. E. DAVIDSON Sodium triphenylgermanethiol: synthesis of some new organothiogermanes. J. Org. Chem. 27: 2252
140. HOGE, H. J. On the theory of mixing of fluid streams. J. Aerospace Sci. 29: 118 (January). Author's reply. Ibid. 29: 609 (May)
141. _____ The gas-viscosity thermometer and its potential usefulness below 20° K, p. 907-11. In Temperature - its measurement and control in science and industry. v. 3, part 2, Reinhold Publishing Corp., New York

PIONEERING RESEARCH DIVISION

Journal Articles (cont.)

142. HYATT, M. T., and H. S. LEVINSON Conditions affecting Bacillus megaterium spore germination in glucose or various nitrogenous compounds. J. Bacteriol. 83: 1231 (June)
143. KAPLAN, A. M. A growing member of the scientific community. Presidential address to the society for industrial microbiology, p. 385. In Developments in industrial microbiology. v. 3, Plenum Press, New York
144. KEMPTON, A. G., M. GREENBERGER, and A. M. KAPLAN A critical comparison of available methods for the spectrophotometric determination of micro amounts of copper in textiles. Textile Research J. 32: 128 (February)
145. _____ M. GREENBERGER, and A. M. KAPLAN Errors in the estimation of copper 8-quinolinolate in mildewproofed fabric. Am. Dyestuff Rep. 51: 314 (30 April)
146. _____ M. GREENBERGER, and A. M. KAPLAN Estimation of copper-containing fungicides on commercially treated cotton textiles by the rubeanic acid method. Am. Dyestuff Rep. 51(17): 33 (20 August)
147. KOBRICK, J. L. Compatibility of personal equipment with workspace. In E. Bennett et al (ed), Human factors in technology. McGraw-Hill, New York
148. KORTÜM, G., M. KORTÜM-SEILER, and S. D. BAILEY Optical properties of 2-(2', 4'-dinitrobenzyl) pyridine in the adsorbed state. J. Phys. Chem. 66: 2439 (December)
149. LEVINSON, H. S., and M. T. HYATT Nitrogenous compounds in germination and postgerminative development of Bacillus megaterium spores. J. Bacteriol. 83: 1224 (June)
150. MANDELS, M., W. HOWLETT, and E. T. REESE Natural inhibitors of cellulase. Can. J. Microbiol. 7: 957 (1961)
151. _____ F. W. PARRISH, and E. T. REESE Sophorose as an inducer of cellulase in Trichoderma viride. J. Bacteriol. 83: 400 (February)
152. MARKARIAN, H., J. GORAS, and H. F. ENOS, JR. Colorimetric determination of dieldrin in wool. Am. Dyestuff Rep. 51(13): 19 (25 June)
153. MERRITT, C., JR., and J. T. WALSH Qualitative gas chromatographic analysis by means of retention volume constants. Anal. Chem. 34: 903 (July)

PIONEERING RESEARCH DIVISION

Journal Articles (cont.)

154. MERRITT, C., JR., and J. T. WALSH Simultaneous dual column gas chromatography. Anal. Chem. 34: 908 (July)
155. MILLER, G. L., and R. BIRZGALIS Size of sample in starch electrophoresis of cellulase. J. Chromatog. 7: 33
156. _____ R. SLATER, R. BIRZGALIS, and R. BLUM Application of different colorimetric tests to celloextrins. Anal. Biochem. 2: 521 (1961)
157. MITRA, A. K., D. H. BALL, and L. LONG, JR. Methyl 2,6-di-o-methyl-sulfonyl- α -d-glucopyranoside and new syntheses of 3,4-di- and 3,4,6-tri-o-methyl-d-glucose. J. Org. Chem. 27: 160 (January)
158. REESE, E. T., R. ANDREOTTI, and F. W. PARRISH Zone electrophoresis of "lichenase." Arch. Biochem. and Biophys. 96(1): 187 (January)
159. _____ R. BIRZGALIS, and M. MANDELS Sucrases in fungi. Can. J. Biochem. and Physiol. 40: 273
160. _____ F. W. PARRISH, and M. MANDELS β -d-1, 6-glucanases in fungi. Can. J. Microbiol. 8: 327
161. ROGERS, M., and A. M. KAPLAN The necessity for scouring the "standard" blue-line cotton fabric. Textile Research J. 32: 161 (February)
162. ROTH, L. M. Hypersexual activity induced in females of the cockroach Nauphoeta cinerea. Science 138: 1267 (14 December)
163. _____ and B. STAY Öocyte development in Diploptera punctata (Eschscholtz) (Blatteria). J. Insect Physiol. 7: 186 (December 1961)
164. _____ and B. STAY Öocyte development in Blattella germanica and Blattella vaga (Blatteria). Ann. Entomol. Soc. Am. 55: 633 (November)
165. _____ and B. STAY A comparative study of öocyte development in false ovoviviparous cockroaches. Psyche 69: 165-208 (December)
166. SOUSA, J., and J. WEINSTEIN Photoisomerization of 2-(2',4'-dinitrobenzyl) pyridine and 2-(2'-nitro-4'-cyanobenzyl) pyridine. J. Org. Chem. 27: 3155 (September)
167. STAY, B., and L. M. ROTH The colleterial glands of cockroaches. Ann. Entomol. Soc. Am. 55: 124

PIONEERING RESEARCH DIVISION

Journal Articles (cont.)

168. WETTERMARK, G. A flash photolysis study of 2-(2',4'-dinitrobenzyl) pyridine in water. J. Am. Chem. Soc. 84: 3658 (5 October)
169. _____. Light-induced isomerization of o-nitrotoluene in water solution. J. Phys. Chem. 66: 2560 (December)
170. _____. Photochromism of o-nitrotoluene. Nature 194: 677 (9 May)
171. WEURMAN, C. An all-glass laboratory apparatus for concentrating volatile compounds from dilute aqueous solutions. J. Food Sci. 26: 670 (November-December 1961)
172. WHARTON, D. R. A., E. D. BLACK, C. MERRITT, JR., M. L. WHARTON, M. BAZINET, and J. T. WALSH Isolation of the sex attractant of the American cockroach. Science 137: 1062 (28 September)
173. _____ and M. WHARTON Effect of β -mercaptoethylamine (MEA) on the radiosensitivity of the male cockroach Periplaneta americana (L.). Radiation Research 16(5): 723 (May)

Technical Papers

174. COTTON, E. S. Solar energy. Science Education Seminars, Bridgewater Regional High School, June; Boxford-Topsfield Regional High School, June. Sponsored by Massachusetts Department of Commerce and Department of Education
175. _____. Solar furnace. Physics Club, Lowell Technological Institute, Lowell, Mass., December
176. _____. Thermal image description and measurement. Conference on Imaging Techniques. Arthur D. Little, Inc., Acorn Park, Cambridge, Mass., October
177. DEGERING, E. F. Irradiation "factor-dependency." Exploratory studies and irradiation-induced polymerization of styrene. Second International Congress of Radiation Research, Harrogate, England, August. (Paper read by Dr. A. Charlesby.)
178. _____. Irradiation "factor-dependency." Seminar to discuss present status of the modification of textile materials by means of high energy radiation. School of Textiles, North Carolina State College, Raleigh, December

PIONEERING RESEARCH DIVISION

Technical Papers (cont.)

179. DEGERING, E. F. Parameters. Atlantic Union College, South Lancaster, Mass., November
180. _____ S. R. BUTLER, G. J. CALDARELLA, F. E. EVANS, S. D. GABELNICK, and M. MANCINI Irradiation "factor-dependency" of vinyl monomers: effects of some experimental variables. International Symposium on Radiation-induced Polymerization and Graft Polymerization, Battelle Memorial Institute, Columbus, Ohio, November. (TID-7643, Division of Technical Information, U. S. Atomic Energy Commission)
181. _____ G. J. CALDARELLA, F. E. EVANS, and S. GRIB Irradiation "factor-dependency": III. Some vinyl monomers, irradiation cycle. American Chemical Society, Washington, March
182. _____ G. J. CALDARELLA, F. E. EVANS, and S. GRIB Irradiation "factor-dependency": IV. Some vinyl monomers: degassing and other variables. American Chemical Society, Washington, March
183. ENOS, H. F., JR. Thin-layer chromatography - a modification. Chemistry Seminar, Boston College, Chestnut Hill, Mass., November
184. HASSELSTROM, T., S. D. BAILEY, and E. T. REESE Regeneration of food flavors through enzymatic action. Army Science Conference, West Point, N. Y., June
185. HEINMETS, F. Enzyme synthesis and its regulation. Indiana University Medical Center, Indianapolis, May
186. _____ Theoretical analysis of models for enzyme synthesis by the use of computers. Institute of Molecular Biophysics and Department of Chemistry, University of Florida, Tallahassee, February
187. _____ Theoretical analysis of model systems for the induced enzyme synthesis. Department of Biology, Massachusetts Institute of Technology, Cambridge, April
188. HENRY, M. C., and W. DAVIDSON New considerations of organo-germanium chemistry. Organo-metallic Conference, University of British Columbia, Vancouver, September
189. _____ J. G. NOLTES, W. DAVIDSON, and A. KREBS Organo-metallic research using group IV elements. Army Science Conference, West Point, N. Y., June
190. HYATT, M. T., and H. S. LEVINSON Conditions affecting *Bacillus megaterium* spore germination in glucose or in various nitrogenous compounds. American Society for Microbiology, Kansas City, Mo., May

PIONEERING RESEARCH DIVISION

Technical Papers (cont.)

191. KOBRICK, J. L. Effects of exposure to wind and low temperature on photopic and scotopic visual acuity. Eastern Psychological Association, Atlantic City, April
192. KORTUM, G., M. KORTUM-SEILER, and S. D. BAILEY Optical properties of the 2-(2',4'dinitrobenzyl) pyridine in the adsorbed state. ARO (Durham) Symposium on Reversible Photochemical Processes, Durham, N. C., April (Proceedings, Preprints of Papers, p. 83)
193. KRONMAN, M. J., L. HOLMES, and R. ANDREOTTI Aggregation reactions of alpha lactalbumin. American Chemical Society, Atlantic City, September
194. LEVINSON, H. S. Bacterial spore germination with special reference to B. megaterium. Conference on Endogenous Metabolism of Bacteria, New York Academy of Sciences, New York City, September
195. _____ The concept of "ionic germination" of bacterial spores. Eleventh Conference on Prevention of Microbiological Deterioration of Military Materiel. U. S. Army Natick Laboratories, Natick, November
196. _____ Effect of ionizing radiation on B. megaterium spore germination. Department of Biology, University of Pittsburgh, Pittsburgh
197. _____ and M. T. HYATT Nitrogenous compounds in germination and post-germinative development of Bacillus megaterium spores. American Society for Microbiology, Kansas City, Mo., May
198. LONG, L., JR., D. H. BALL, and A. K. MITRA A novel carbohydrate reaction. Army Science Conference, West Point, N. Y., June
199. MANDELS, G. R. Endogenous respiration of fungus spores in relation to dormancy and germination. Conference on Endogenous Metabolism of Bacteria, New York Academy of Sciences, New York City, September
200. MANDELS, M., and E. T. REESE Inhibition of cellulases and β -glucosidases. American Chemical Society, Washington, March
201. MCGINNIS, J. M. Typical human factors problems found during cold weather tests of Army equipment. Applied Science Colloquium, Tufts University, Medford, Mass., March
202. MENDELSON, J. M., M. A. STEINBERG, and C. MERRITT, JR. Gas chromatographic separations of volatile components from haddock (Melanogrammus Aeglefinus) flesh. Twenty-second Meeting of the Institute of Food Technologists, Miami, June

PIONEERING RESEARCH DIVISION

Technical Papers (cont.)

203. MERRITT, C., JR. Application of mass spectrometry and gas chromatography to flavor analysis. Department of Food Technology, University of Massachusetts, Amherst, May
204. _____. Time-of-flight mass spectrometry with a gas chromatographic inlet system. Fourth Annual Bendix Time-of-Flight Mass Spectrometer School, Cincinnati, October
205. _____ and J. M. MENDELSON. Flavor in fish. American Chemical Society, Atlantic City, September
206. PILSWORTH, M. N., JR. Tensile impact on rubber and nylon. American Physical Society, Baltimore, March (Bull. Amer. Phys. Soc., 7: 241); and Army Conference on Dynamic Behavior of Materials and Structures, Springfield, Mass., September
207. PRATT, J. J., JR. New vistas in military entomology. Florida Entomological Conference, University of Florida, Gainesville, February; and Fernald Club, University of Massachusetts, Amherst, April
208. REESE, E. T., and M. MANDELS. Enzymatic hydrolysis of β -glucans. American Chemical Society, Washington, March
209. ROTH, L. M. Receptivity in females of Nauphoeta cinerea. Entomological Society of America, Phoenix, Arizona, December
210. SAPERS, G. Investigation of the biosynthesis of the volatile components of onions. 1001st Army Research and Development Reserve Group at Massachusetts Institute of Technology, Cambridge, May
211. SIMMONS, E. G. Fungus cultures: conservation and taxonomic responsibility. Specialists Conference on Culture Collections. National Research Council (Canada), Ottawa, August
212. SUSICH, G. Structural changes in nylon body armor fabrics due to impact. Thirteenth Defense Conference on Non-Destructive Testing, Concord, California, September
213. WETTERMARK, G. Flash photolysis. Seminar, Northeastern University, Boston, December
214. WHARTON, D. R. A. The sex attractant of the American cockroach. American Chemical Society, Atlantic City, September

TECHNICAL SERVICES DIVISION

Technical Papers

215. KENYON, E. M. QMC program for the calibration of measuring and testing instruments. U. S. Army Calibration Conference, Fort Monmouth, N. J., 20-22 March

ARMED FORCES FOOD AND CONTAINER INSTITUTE

Reports

216. Adaptability of shear presses to specifying tenderness of cooked, sliced, freeze-dried beef, by J. M. TUOMY and R. G. YOUNG. AMXFC Report 39-62, December
217. Contour packaging of field clothing items, by G. L. SCHULZ. QMFCIAF Report 18-62, June
218. Design of load configurations for the M-4A high speed aerial delivery container
XI. Load configurations for individual combat meals, training grenades (inert), and carbines and ammunition, by A. S. YOUNG and E. H. SCHEMBOR. QMFCIAF Report 8-62, March
219. Design of load configurations for the M-4A high speed aerial delivery container
XII. Load configurations for practice hand grenades and 30-caliber Browning machine guns with associated ammunition, by E. J. PULO. AMXFC Report 36-62, October
220. Effect of dehydration variables on the quality of freeze-dried cooked sliced beef, by J. M. TUOMY, R. J. LECHNIR, and T. MILLER. QMFCIAF Report 14-62, June
221. Effect of temperature on the tenderness of cooked beef, by J. M. TUOMY, R. J. LECHNIR, and T. MILLER. QMFCIAF Report 28-62, August
222. Food attitudes in an unusual environment: a second study, by D. R. PERYAM. QMFCIAF Report 2-62, March
223. Food consumption and preferences under conditions of restricted and non-restricted feeding, by D. R. PERYAM and R. W. SEATON. AMXFC Report 40-62, December
224. Food preferences in a stressful situation, by J. M. KAMEN. QMFCIAF Report 31-62, August
225. Hunger in groups: an arctic experiment, by R. W. SEATON. QMFCIAF Report 34-62, August
226. The influence of diet on volume and major molecular composition of gastrointestinal gas in rats, by L. A. WHITEHAIR and K. K. MATSUMURA. AMXFC Report 38-62, November
227. Isolation and partial characterization of a factor from acid hydrolyzed glucose which has vitamin B₆ activity in the yeast assay procedure, by P. A. HEDIN and W. K. CALHOUN. QMFCIAF Report 9-62, March

ARMED FORCES FOOD AND CONTAINER INSTITUTE

Reports (cont.)

- 228. The length and direction of rating scales, by R. W. SEATON. QMFCIAF Report 11-62, June
- 229. Methods of shaping soldiers' attitudes toward quick-serve meals, by J. M. KAMEN. AMXFC Report 41-62, December
- 230. Modified microbiological procedures for vitamin assays: a manual, by M. H. THOMAS. QMFCIAF Report 19-62, July
- 231. The nutrient composition of the meal, combat, individual, by M. H. THOMAS. QMFCIAF Report 12-62, June
- 232. Oxygen uptake, heart rate, and body temperature during work in man, dog, and swine, by D. R. YOUNG and R. PRICE. QMFCIAF Report 3-62, March
- 233. A questionnaire study of army mess personnel, by J. EINDHOVEN. AMXFC Report 37-62, November

Library Bulletin Series

- 234. List of periodicals currently received in the library branch of the institute, compiled by W. L. NECKER and E. WYNN. QMFCIAF Library Bulletin 7, September 1961

Journal Articles

- 235. ANELLIS, A. Radioresistance of a pseudomonas species isolated from the omega west reactor. Radiation Research 15: 6 (December 1961)
- 236. _____ and R. B. KOCH Comparative resistance of strains of Cl. botulinum to gamma rays. J. Appl. Microbiol. 10: 326
- 237. _____ and R. B. KOCH Comparative resistance of strains of Cl. botulinum types A and B, and P.A. 3679 to gamma rays. (Abstract) Bacteriol. Proc. A43: 30
- 238. BYRNE, A. F., and R. B. KOCH Food production by submerged culture of plant tissue cells. Science 135: 215 (January)
- 239. CALLOWAY, D. H., R. HILF, and A. H. MUNSON Effects of chronic food restriction in swine. J. Nutrition 76: 365 (April)

ARMED FORCES FOOD AND CONTAINER INSTITUTE

Journal Articles (cont.)

240. CALLOWAY, D. H., and R. B. POTTS Comparison of atherosclerosis in swine fed a human diet or purified diets. Circulation Research 11: 47 (July)
241. GORESLINE, H. E. Role of sanitation in dehydrated foods. J. Milk and Food Technol. 25: 11 (January)
242. GRECZ, N., A. ANELLIS, and M. D. SCHNEIDER Procedure for cleaning Cl. botulinum spores. J. Bacteriol. 84: 552 (September)
243. HEDIN, P. A. Gastrointestinal gas production in rats as influenced by some animal and vegetable diets, sulfiting, and antibiotic supplementation. J. Nutrition 77: 471 (August)
244. _____ and R. R. ADACHI Effect of diet and time of feeding on gastrointestinal gas production in rats. J. Nutrition 77: 229 (July)
245. HOLLENDER, H. A. New horizons in nutrition through food technology. Illinois Med. J. (November)
246. KAMEN, J. M. Decision-making by users of food acceptance data. Food Technol. 16: 48 (January)
247. _____ Reasons for non-consumption of food in the army. J. Am. Dietetic Assoc. 41: 437 (November)
248. LEE, F. H. Dehydrated foods: military experiments foreshadow future hospital uses. Hospitals 35: 77 (December 1961)
249. MEHRLICH, F. P. Accelerating food irradiation breakthroughs. Food Processing 46: 44 (June)
250. MOLAISSON, L. J., and J. J. SPADARO, Southern Regional Research Laboratory, U. S. Dept. of Agriculture; M. T. ROBY, and F. H. LEE Dehydrated diced sweetpotatoes -- a pilot-plant process and product evaluation. Food Technol. 16: 101 (November)
251. SCHNEIDER, M. D., N. GRECZ, and A. ANELLIS Sporulation of Cl. botulinum types A, B, and E, Cl. perfringens and P.A. 3679 in dialysis sacs. (Abstract) Bacteriol. Proc. A39: 29
252. SIDWELL, C. G., H. SALWIN, M. DRIVER, and R. B. KOCH Spectral examination of cured-meat pigments during frankfurter processing. J. Food Sci. 27: 9 (January-February)

ARMED FORCES FOOD AND CONTAINER INSTITUTE

Journal Articles (cont.)

253. SIDWELL, C. G., H. SALWIN, and R. B. KOCH The molecular oxygen content of dehydrated foods. J. Food Sci. 27: 255 (May-June)
254. YOUNG, D. R. Performance in relationship to food energy intake. Activities Report, R&D Associates, Food & Container Institute, Inc., 13: 146 (1961)
255. _____ R. PRICE, N. E. ELDER, and R. R. ADACHI Energy and electrolyte metabolism and adrenal responses during work in dogs. J. Appl. Physiol. 17: 669 (July)

Technical Papers

256. ANELLIS, A. Comparative resistance of strains of Cl. botulinum types A and B, and P.A. 3679 to gamma rays. American Society of Microbiologists, Kansas City, Mo., 9 May
257. _____ Destruction of food spoilage bacteria by ionizing radiation. Armour Research Foundation, Society of Industrial Microbiology, Chicago, 16 April
258. BISHOV, S. J. Oxidation of fat in model systems related to freeze-dried foods. III. The influence of non-lipid animal tissue components. Institute of Food Technologists Annual Meeting, Miami Beach, 10 June
259. BROCKMANN, M. C. Freeze-dehydration of poultry meat. Poultry Products Training School, Institute of American Poultry Industries, Chicago, 9 January and 6 March
260. _____ Freeze-dried foods - the viewpoint of the consumer. American Society of Mechanical Engineers, New York City, 29 November
261. _____ Recent developments in freeze-drying of foods. Department of Food Science Seminar, Michigan State University, East Lansing, Mich., 30 April
262. BYRNE, A. F. Food production by submerged culture of plant tissue cells. Research and Development Associates Military-Industry Conference, Chicago, 25 October
263. CALHOUN, W. K. Role of nutrition in new product development. Tenth Annual Food Technology Short Course, University of Missouri, Columbia, Mo., 10 March

ARMED FORCES FOOD AND CONTAINER INSTITUTE

Technical Papers (cont.)

264. CALHOUN, W. K. Trace elements in foods as determined by activation analysis. Fourteenth Research Conference, American Meat Institute Foundation, Chicago, 23 March
265. COSLER, H. B. Candy. Quartermaster Subsistence School, Fort Lee, Va., 16 August
266. _____. Candy for use in the armed forces. Quartermaster Subsistence School, Fort Lee, Va., 5 April
267. _____. Current thinking on confections for military and civil defense rations. National Confectioners Association and American Association of Candy Technologists, Chicago, 6 June
268. DILLON, J. The importance of military packaging. Western Springs Rotary Club, Hinsdale, Ill., 10 April
269. _____. Military transportation hazards. Purdue University, Lafayette, Ind., 19 March
270. DRAKE, B. K. Analysis of mastication sounds. Institute of Food Technologists Annual Meeting, Miami Beach, 10-14 June
271. EINDHOVEN, J. Last but also least. Institute of Food Technologists Annual Meeting, Miami Beach, 10-14 June
272. _____. Shaping foods to the user's preferences. Annual Meeting of the Human Factors Society, New York City, 29 November
273. FRITZSCHE, H. W. New methods in vegetable preservation. 54th Annual Convention, Vegetable Growers Association of America, Indianapolis, Ind., 26 November
274. _____. Observation on 18 months' tour of freeze-dehydration industry in Europe. Industry Day, QM R&E Center, Natick, 18 May
275. _____. Observations on Secretary of the Army research and study fellowship of dehydration in Europe. Chicago Section, Institute of Food Technologists, Chicago, 14 May
276. GORESLINE, H. E. A discussion of the microbiology of various dehydrated foods and the need for further research. Conference on Microbiological Quality of Foods, Franconia, N. H., 27-29 August
277. _____. Food stockage in fallout shelters. Research and Development Associates 16th Annual Meeting, Chicago, 24-26 April

ARMED FORCES FOOD AND CONTAINER INSTITUTE

Technical Papers (cont.)

278. GORESLINE, H. E. Freeze-dehydrated foods. Indiana Section, Institute of Food Technologists, Lafayette, Ind., 9 March
279. _____. Freeze-drying as a method of food preservation. Missouri Association of Milk and Food Sanitarians, Columbia, Mo., 3 April
280. _____. How micro-organisms affect food quality. Klenzade 23rd Educational Seminar, Chicago, 28-30 March
281. _____. Microbiological specifications for certain frozen foods used by the military. International Association of Microbiological Societies, Montreal, Canada, 16-18 August
282. _____. The need for long-term storage of military rations. American Society of Heating, Refrigerating, and Air Conditioning Engineers, St. Louis, Mo., 1 February
283. _____. New ways of processing food and the role of sanitation. Eleventh Annual Pennsylvania Health Conference, State College, Pa., 22 August
284. _____. Preservation by traditional and inhibitory substances. First International Congress of Food Science and Technology, London, England, 18-21 September
285. GRECZ, N. Cleaning of bacterial spores for chemical studies of the mode of action of ionizing radiation. Armour Research Foundation, Society of Industrial Microbiology, Chicago, 16 April
286. _____. Procedure for cleaning of spores of Cl. botulinum. American Society of Microbiologists, Kansas City, Mo., 9 May
287. _____. Radiation preservation of food. U. S. Army Medical Service Veterinary School, Chicago, 29 October
288. GRUNDY, A. V. Evaluation of exhibits (discussion). Fibre Box Association, Chicago, 1-4 May
289. _____. Flexible film packaging. Sixth Joint Industry-Military Symposium on Packaging and Materials Handling, Washington, 27 February
290. HAMMAN, J. W., and J. EINDHOVEN Effectiveness of certain experimental plans utilized in sensory evaluations. Walter Reed Army Institute for Research, Washington, 25 October
291. HEILIGMAN, F. Radiation preservation of food. Food Technology Seminar, University of Wisconsin, Madison, 8 March; Quartermaster Subsistence School, Fort Lee, Va., 7 June

ARMED FORCES FOOD AND CONTAINER INSTITUTE

Technical Papers (cont.)

292. HENICK, A. S. Lipids. Gordon Research Conference on Basic Chemistry of Aging, Tilton, N. H., 11 June
293. _____ and G. E. TRIPP Long-term storage of military rations. Institute of Food Technologists Annual Meeting, Miami Beach, 10-14 June
294. HOLLENDER, H. A. Freeze-dehydrated foods. Institute of Food Technologists (Indiana Section), Lafayette, Ind., 9 March
295. _____ Military convenience foods with a civilian potential. Houston Restaurant Association, Houston, Texas, 20 November
296. _____ New horizons in nutrition through food technology. Symposium on Nutrition and Food Technology, Institute of Food Technologists, Chicago, 26 September
297. HUBER, D. A. Radiation preservation of food. U. S. Army Medical Service Veterinary School, Chicago, 12 December
298. JENSEN, R. J. Identification of volatile flavor components in foods. 13th Annual Mid-American Spectroscopy Symposium, Chicago, 3 May
299. JOHNSON, K. R. Dehydrated fruits and vegetables. Quartermaster Subsistence School, Fort Lee, Va., 6 December
300. JOKAY, L. Freeze-dried scrambled eggs. Institute of American Poultry Industries, Chicago, 11 December
301. KAMEN, J. M., and J. EINDHOVEN Comparison of rating methods in investigations of complex suprathreshold taste stimuli. American Psychological Association, St. Louis, Mo., 3 September
302. _____ and J. EINDHOVEN Instructional sets affecting preference differences among familiar and unfamiliar foods. American Psychological Association, St. Louis, Mo., 3 September
303. KLIČKA, M. V. Characteristics of future rations. Medical Education for National Defense Symposium, U. S. Army Medical Research and Nutrition Laboratory, Fitzsimons General Hospital, Denver, Colo., 15 May
304. _____ Development of canned military rations. U. S. Army Medical Service Veterinary School, Chicago, 6 April
305. _____ Military rations. U. S. Army Medical Service Veterinary School, Chicago, 18 June

ARMED FORCES FOOD AND CONTAINER INSTITUTE

Technical Papers (cont.)

306. KLICKA, M. V. New operational rations. Dehydrated Foods Orientation Course for Inspectors, AFFCI, Chicago, 5 April; Advanced Quartermaster Class, QM R&E Center, Natick, 17 April
307. _____. Operational rations development and rations of other nations. Quartermaster Subsistence School, Fort Lee, Va., 6 June
308. LEE, F. H. Menu planning in 1980. Research and Development Associates Military-Industry Conference, Chicago, 25 October
309. LESLIE, S. W., and R. JENSEN Identification of volatile flavor components in foods. 13th Annual Mid-American Symposium on Spectroscopy, Chicago, 30 April
310. LORD, W. E. Concept of use for dehydrated foods. Dehydrated Foods Orientation Course for Inspectors, AFFCI, Chicago, 3 April
311. _____. Specification development. U. S. Army Medical Service Veterinary School, Chicago, 31 January, 6 March, 4 April, and 5 September
312. _____. Specification requirements. Dehydrated Foods Orientation Course for Inspectors, AFFCI, Chicago, 5 April
313. _____. Standardization on new developments in military rations. Walter Reed Army Hospital, Washington, 21 September
314. _____. Subsistence specifications standards and directives. U. S. Army Medical Service Veterinary School, Chicago, 24 April and 8 May
315. MASON, O. E. Current research and development in the field of cereal and baked products. Quartermaster Subsistence School, Fort Lee, Va., 23 October
316. MATTHEARN, R. O. Research in the development of unconventional foods. Research and Development Associates Military-Industry Conference, Chicago, 25 October
317. MEHRLICH, F. P. Activities of the Quartermaster Food and Container Institute for the Armed Forces. Industry Day, QM R&E Center, Natick, 18 May
318. _____. Challenges in food engineering. American Society of Agricultural Engineers, Washington, 17-20 June
319. _____. Convenience foods for the future. Institute of Food Technologists (New York Chapter), New York City, 17 October

ARMED FORCES FOOD AND CONTAINER INSTITUTE

Technical Papers (cont.)

320. MEHRLICH, F. P. The current status of the U. S. food radiation sterilization program. Institute of Food Technologists Annual Meeting, Miami Beach, 10-14 June
321. _____. Food preservation by nuclear energy. Nuclear Congress, New York City, 4-6 June
322. _____. Where are we in food irradiation? Research and Development Associates 16th Annual Meeting, Chicago, 24-26 April
323. NECKER, W. L. Documentation in the food field. Conference on Abstracting and Documentation in Food Science, Food Technology, and Food Engineering, Lansing, Mich., 10 April
324. NOBLE, E. L. Concepts of military operational rations, present and future. Medical Education for National Defense Symposium, Fitzsimons General Hospital, Denver, Colo., 15 May
325. OSTER, M. S. Standardization and the development of specifications. U. S. Army Medical Service Veterinary School, Chicago, 12 October
326. _____. Standardization within the Department of Defense. U. S. Army Medical Service Veterinary School, Chicago, 30 November
327. PERYAM, D. R. Behavioral measurement of food quality: its implications for quality control. 18th Annual Quality Control Conference of the Rochester Section, American Society for Quality Control, Rochester, N. Y., 27 March
328. _____. Psychological measurement of food properties. Conference on the Flavor and Texture of Foods, Eastern Experiment Station, U. S. Dept. of Agriculture, Philadelphia, 30 October
329. _____. Variability of taste perception. Institute of Food Technologists Annual Meeting, Miami Beach, 10-14 June
330. RAMSKOV, B. Specification development. U. S. Army Medical Service Veterinary School, Chicago, 5 and 15 June
331. RAUCH, A. C. Food technology and processing to meet ration requirements. Medical Education for National Defense Symposium, U. S. Army Medical Research and Nutrition Laboratory, Fitzsimons General Hospital, Denver, Colo., 15 May
332. _____. Freeze-dried foods for the armed forces. Freeze-Drying Conference, Oregon State University, Corvallis, Oreg., 1 November

ARMED FORCES FOOD AND CONTAINER INSTITUTE

Technical Papers (cont.)

- 333. RAUCH, A. C. Production testing. Dehydrated Foods Orientation Course for Inspectors, AFFCI, Chicago, 5 April
- 334. RUBINATE, F. J. Flexible packaging for the military. American Management Association, Chicago, 14-16 May
- 335. SAVICH, A. L. New methods of fabrication and preservation of meat products. Quartermaster Subsistence School, Fort Lee, Va., 28 November
- 336. SCHNEIDER, M. D. Sporulation of Clostridium botulinum types A, B, and E, Clostridium perfringens, and P.A. 3679 in dialysis sacs. American Society of Microbiologists, Kansas City, Mo., 9 May
- 337. SIMON, M. Radiation preservation of food. Illinois Cannery School, Urbana, Ill., 10 January
- 338. SNYDER, O. P. Latest progress in the radiation preservation of foods program. U. S. Army Medical Service Veterinary School, Chicago, 25 May
- 339. ———. Radiation sterilization of food. U. S. Army Medical Service Veterinary School, Chicago, 12 and 27 April
- 340. YOUNG, D. R. Effect of food intake on performance capabilities. Third Army Science Conference, West Point, N. Y., 19-22 June

Books

- 341. AFFCI and NAS-NRC Freeze-Drying of Foods: Proceedings of a Conference. 237 pp., 1962
- 342. CECIL, S. R., and J. C. WOODROOF (University of Georgia). Long-Term Storage of Military Rations. Published by Armed Forces Food and Container Institute. 231 pp., 1962

New Books Appraised

- 343. NECKER, W. L. Library Journal, 87: 99, 108, 230, 569, 985, 1467, 1962

ARMED FORCES FOOD AND CONTAINER INSTITUTE

Book Review

344. BROCKMANN, M. C. The accelerated freeze-drying (AFD) method of food preservation. Food Technol. 16: 92-93 (July)

Miscellaneous

345. MITCHELL, J. H., JR.; and A. S. HENICK Rancidity in food products, 453-92 (W. O. Lundberg "Autoxidation and Antioxidants," Vol. II)
346. NECKER, W. L. Deduct it from your income tax. Library J. 87: 43-45 (January)

INDEX TO AUTHORS

Adachi 244, 255
Agen 112, 114
Altamura 130
Andreotti 158, 193
Anellis 235, 236, 237, 242, 251,
256, 257
Anstey 93, 97, 104

Bailey 5, 131, 148, 184, 192
Ball 132, 157, 198
Barron 70
Bazinet 131, 133, 172
Bennett 87, 94, 98
Birkholz 124
Birzgalis 155, 156, 159
Bishov 258
Black 172
Blum 156
Botsch 118
Brierly 99
Brockmann 259, 260, 261, 344
Buchan 32
Butler 180
Byrne 238, 262

Caldarella 180, 181, 182
Calhoun 227, 263, 264
Calloway 239, 240
Campbell 32
Carey 24
Carwile 129
Castle 56
Caswell 86
Cecil 342
Cosler 265, 266, 267
Cotton 174, 175, 176
Crosson 59

Dalrymple 92, 100, 101, 102
Darby 126, 134
Davidson 139, 188, 189
Degering 177, 178, 179, 180, 181,
182
Delasanta 80
Dillon 268, 269

DiPietro 135
Dodd 88, 90, 104
Drake 270
Driver 252

Eckstrom 17
Eichacker 120
Eindhoven 233, 271, 272, 290, 301,
302
Elder 255
Enos 152, 183
Evans 180, 181, 182

Flanagan 4
Fonseca 120, 128
Ford 20
Fowler 18, 21
Fox 40, 44, 45, 48, 62, 64
Fritzsche 273, 274, 275

Gabelnick 180
Gates 37, 46
Goldman 61
Goras 152
Goresline 241, 276, 277, 278, 279,
280, 281, 282, 283, 284
Grecz 242, 251, 285, 286, 287
Greenberger 144, 145, 146
Grib 181, 182
Grundy 288, 289

Hall 55
Hamman 290
Harvey 71, 72
Hasselstrom 130, 184
Hastings 103
Hedin 227, 243, 244
Heiligman 291
Heinmets 136, 137, 185, 186, 187
Heinrich 17, 22
Henick 292, 293, 345
Henry 138, 139, 188, 189
Herschman 137
Hilf 239

Hirschorn 53	Madnick 31, 41, 76
Hoak 22	Mancini 180
Hoffman 80, 81	Mandels, G. R. 199
Hoge 120, 128, 129, 140, 141	Mandels, M. 150, 151, 159, 160, 200, 208
Hogue 104	Markarian 152
Hollender 245, 294, 295, 296	Mason 315
Holmes 193	Matsumura 226
Howlett 150	Matthern 316
Huber 297	McGinnis 121, 122, 123, 201
Hyatt 142, 149, 190, 197	McIsaac 77
	McQuade 78
Jensen 298, 309	Mehrlich 249, 317, 318, 319, 320, 321, 322
Johnson 299	Meigs 95, 106
Jokay 300	Mendelsohn 202, 205
Josephson 111	Merola 81
	Merritt 133, 153, 154, 172, 202, 203, 204, 205
Kamen 224, 229, 246, 247, 301, 302	Miles 66, 67, 79, 80, 81
Kaplan 124, 143, 144, 145, 146, 161	Millard 113
Kavet 56	Miller, G. L. 155, 156
Kempton 134, 144, 145, 146	Miller, T. 220, 221
Kennedy 31, 73, 74, 75	Mitchell, D. G. 131
Kenyon 215	Mitchell, J. H. 345
King 125	Mitra 157, 198
Klicka 303, 304, 305, 306, 307	Molaison 250
Kobrick 147, 191	Monego 42
Koch 236, 237, 238, 252, 253	Munson 239
Koeller 53	Murray 64
Kortüm 148, 192	
Kortüm-Seiler 148, 192	Necker 234, 323, 343, 346
Kramer 135	Noble 324
Krasny 34, 35, 36	Noltes 189
Krebs 189	
Kronman 193	Oesterling 5
	Oliva 34, 35
Laible 65	Oster 325, 326
Lastnik 24, 25, 26, 27, 37, 49	
Lechnir 220, 221	Panofsky 105
Lee 248, 250, 308	Parrish 132, 151, 158, 160
Leslie 309	Peryam 222, 223, 327, 328, 329
Levin 115, 116	Peterson 13, 14, 15, 16
Levinson 142, 149, 190, 194, 195, 196, 197	Pilsworth 127, 206
Litchfield 47	Pomerantz 8
Long 130, 157, 198	Pope 23, 69
Lord 310, 311, 312, 313, 314	Porter 89
Lyons, R. 105	Potts 240
Lyons, W. J. 43	Pratt 207